

SUPPORT FOR THE AMENDMENTS

Support for the amendment of Claim 1 is found on page 2, lines 23-26, in the specification.

Support for the amendment of Claim 2 is found in original Claims 1 and 2 and in Example 7 of Table 1 on page 8 of the specification.

Support for Claim 17 is found in Claim 2 and original Claim 3.

No new matter will be added to this application by entry of this amendment.

Upon entry of this amendment, Claims 1-17 are active.

REMARKS/ARGUMENTS

The claimed invention is directed to an aluminum brazing sheet for the manufacture of parts of automobile radiators, including the header and the side plate. An aluminum brazing sheet having high strength, reduced pressure adhesion failure during clad-rolling and providing high productivity is sought.

The claimed invention addresses this problem by providing an aluminum brazing sheet consisting of: a core material made of an aluminum alloy; and a cladding material cladded on at least one side of the core material and made of an aluminum alloy having a potential lower than that of the core material, and optionally, a brazing material laminated on the side of the core material opposite to the cladding material, wherein the cladding material is made of an aluminum alloy consisting essentially of 0.4 to 0.7 mass% of Mg, 0.5 to 1.5 mass% of Si, and 0.4 to 1.2 mass% of Mn, the remainder being Al and unavoidable impurities.

An aluminum brazing sheet consisting of: a core material made of an aluminum alloy; and a cladding material cladded on at least one side of the core material and made of

an aluminum alloy having a potential lower than that of the core material, and optionally, a brazing material laminated on the side of the core material opposite to the cladding material, wherein the cladding material is made of an aluminum alloy consisting essentially of 0.4 to 0.7 mass% of Mg, 0.5 to 1.5 mass% of Si, 0.4 to 1.2 mass% of Mn, and 0.3 to 6 mass% of Zn, the remainder being Al and unavoidable impurities is also provided.

No such aluminum brazing sheet is disclosed or suggested in the cited references.

Applicants wish to thank Examiner Zimmerman for the courteous and helpful discussion of the above-identified application with Applicants' U.S. representative on February 13, 2008. At that time the language of Claims 1 and 2 was reviewed and appropriate amendments discussed. The following reiterates and expands upon that discussion.

Applicants respectfully note that Claim 1 is herein amended to use the closed transition language "consists of." Claim 2 is now worded as an independent claim and also employs the closed transition term "consists of."

The rejection of Claims 1-16 under 35 U.S.C. 103(a) over Yamada et al. (U.S. 2002/0037426 A1) is respectfully traversed.

Yamada does not disclose or suggest an aluminum brazing sheet consisting of a core material, a cladding material and optionally a brazing material laminated on the side of the core material opposite to the cladding material .

Yamada describes an aluminum alloy brazing sheet having a **four-layered structure** comprising a core alloy, a filler alloy, a sacrificial anode material and an intermediate layer between the core alloy and the sacrificial anode material (Claim 1). Nowhere does this reference disclose or suggest an aluminum alloy sheet consisting of a core material, a cladding material and optionally, a brazing material laminated on the side of the core material opposite to the cladding material as in the presently claimed invention.

Therefore, Applicants respectfully submit that the cited reference can neither anticipate nor render obvious the claimed invention and withdrawal of the rejection of Claims 1-16 under 35 U.S.C. 103(a) over Yamada et al. is respectfully requested.

The rejection of Claims 1-16 under 35 U.S.C. 103(a) over Syslak et al. (WO 02/090031) is respectfully traversed.

Syslak neither discloses nor suggests the aluminum alloy brazing sheet as described in Claims 1 and/or 2 of the present invention.

Syslak describes a brazing sheet for a heat exchanger, with a core material of an aluminum alloy and a brazing aluminum alloy metal clad on at least one side of the core (Claim 1). The inner cladding layer comprises: 0.7-1.5 wt.% Mn, maximum 1.2 wt.% Si, maximum 0.6 wt.% Fe, maximum 0.5 wt.% Cu, 1.0-2.0 wt.% Zn, 0.5 wt.% Mg, maximum 0.5 wt.% Ti and a total of 0.15 wt.% other elements with the balance aluminum (Page 5, lines 22-26 and Claim 9). This reference describes the production of the alloys for the core and clad being produced from recycled materials (Page 3, lines 14-15) and therefore the described alloys contain Fe (Page 7, line 20) and other elements. In addition, Cu (Page 6, lines 17-20) and Ti (page 7, lines 15-19) are indicated as alloy components. Applicants therefore respectfully submit that the Syslak composition includes Fe, Cu, Ti and other elements.

In contrast, the presently claimed invention is directed to an aluminum brazing sheet, wherein the cladding material is made of an aluminum alloy **consisting essentially of** the compositions listed in the following table:

TABLE

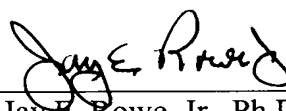
	Claim 1	Claim 2	<u>Syslak</u>
Mg (mass %)	0.4-0.7	0.4-0.7	0.5
Si (mass %)	0.5-1.5	0.5-1.5	Maximum 1.2
Mn (mass %)	0.4-1.2	0.4-1.2	0.7-1.5
Zn (mass %)		0.3-6.0	1.0-2.0
Fe(mass %)			Maximum 0.6
Cu(mass %)			Maximum 0.5
Ti (mass %)			Maximum 0.5
Other Elements (mass %)			0.15

The balance of the composition in each of the alloys described in the Table is aluminum. Clearly, the cited reference does not disclose or suggest the alloy compositions of Claims 1 and 2 of the present invention which consist essentially of the listed compositions. Therefore, Applicants respectfully submit that the cited reference can neither anticipate nor render obvious the presently claimed invention and withdrawal of the rejection of Claims 1-16 under 35 U.S.C. 103(a) over Syslak et al. is respectfully requested.

Applicants respectfully submit that the above-identified application is now in condition for allowance and early notice of such action is earnestly solicited.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.
Norman F. Oblon



Jay E. Rowe, Jr., Ph.D.
Registration No. 58,948

Customer Number

22850

Tel: (703) 413-3000
Fax: (703) 413 -2220
(OSMMN 08/07)